

GOOD-ARK Electronics

3A,50-800V Fast Recovery Rectifiers

Features

- Low leakage current
- Low forward voltage drop
- Glass passivated chip junction
- For general purpose applications
- Moisture sensitivity: level 1, per J-STD-020
- For fast switching and low logic level applications
- High temperature soldering guaranteed: 260 ℃/10 seconds



DO-201AD

Applications

• Small battery charger, Power supplies

Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)								
Parameter	Symbol	MR850	MR851	MR852	MR854	MR856	MR858	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	V
Maximum average forward rectified current	I _{F(AV)}	3				Α		
Peak forward surge current,8.3ms single half sine-wave superimposed on rated load per diode	Ігэм	150				А		
Operating junction temperature range	TJ	-55 to +135			°C			
Storage temperature range	T _{STG}	-55 to +150			°C			

Thermal-Mechanical Specifications (TA=25°C unless otherwise noted)						
Parameter	Symbol	Тур	Unit			
Thermal Resistance, Junction to Ambient	R _{θJA}	33	°C /W			
Thermal Resistance, Junction to Case	Rejc	15	°C /W			
Thermal Resistance, Junction to Lead	ReJL	13	°C /W			



MR850 thru MR858 GOOD-ARK Electronics

Electrical Specifications(TA=25°C unless otherwise noted)									
Parameter	Symbol	Test Conditions	MR850	MR851	MR852	MR854	MR856	MR858	Unit
Forward Drop Voltage	V _F	I _F =3A	1.30				V		
Reverse leakage	ge .	T _J =25°C	5						- uA
current @V _R	IR	T」=125°C	150						
Typical junction capacitance	Сл	4.0 V 1 MHZ	65			pF			
Maximum reverse recovery time	y trr	I _F =0.5A,							nS
		I _R =1.0A,		100 150			50		
		I _{RR} =0.25A							

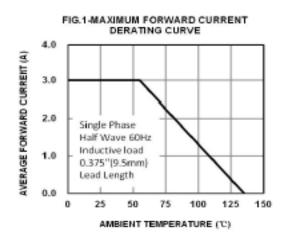
Note:

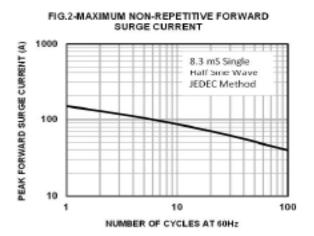
1. Valid provided that leads at a distance of 9.5 mm from case are kept at ambient temperature.

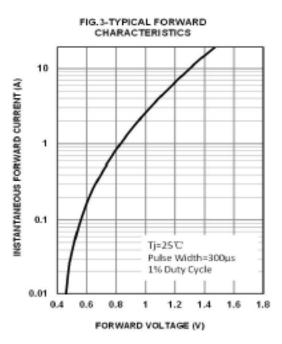
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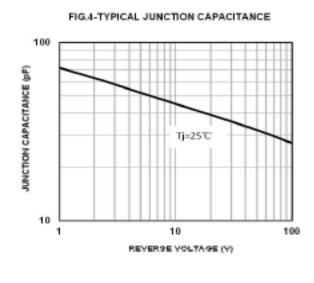
Ratings and Characteristics Curves

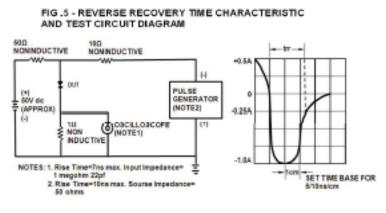
(TA = 25°C unless otherwise noted)











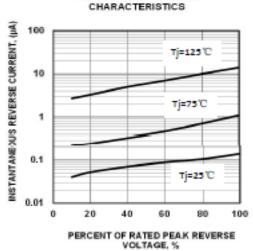


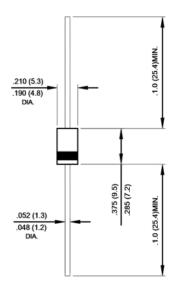
FIG.6-TYPICAL REVERSE



Package Outline Dimensions

in inches (millimeters)

DO-201AD



Dimensions in inches and (millimeters)

Revision History

Document Version	Date of release	Description of changes
Rev.A	2021.06.01	Released Datasheet
Rev.B	2024.02.28	Modify document format



MR850 thru MR858

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